London School of Hygie e and Tropical Medicine, Gower St. WGl
8 Aug53

Dear Josh

How are things with you? I have not heard from you for weeks andweek, I hope this only means that you are to busy to write, or are on holiday.

I am farly well disorganised by my rather inefficient efforts to get organised for my move to the Lister and for trip to Italy. I now have a full car-load of passengers, very full in fact, we shall all have to take practically no luggage, but a m buying a roof-rack which should help a bit. What a pity you two are not going to be there. I am just trying to write the invited paper; it will nescessarily repeat Norton's CSH paper quite a bit; Ishall try and work in some of my micromanipulation results so that there is something fresh in it even for people who were at CSH.

Ihave done some more of these and still have not solved the difficulty of motile cells getting drawn stuck at the interfaces. I now have one quite definite example of limited and irregular replication of the trail -producing gene. One of the progeny of an early motile cell, divided up at the cell stage, produced ++ non- mtile cells together with 50 or so motiles: I isolated a good many of these, most produced only non-motiles, the rest produced trail-equivalents, the hand the cells and one motile, except for one which again gave ++ non-motiles and c. 80 motiles; I picked a grest many of these to separate droplets but got only all NM, or (N++ and 1 M). The different behaviour in fluid and in semi-solid remains unexplained, I intend to do some more platings of single cells but this is much more laborious than putting them in droplets. As usual everything takes longer than I expected, however in Oct I hope to get down to it.

I have 3 (presumed) S typhi O strains from Le Minor which I will send you next week. One responds to TM2 lysate with swarms which are d, and rare phase? j. The others give trails but no swarms. I will also send his para A O and paralysed; these are are unresponsive. I sent up your Gal +/- strain to Spicer as I had no EMB made up but forgot to ask him what he found; maybe he has written to you. He is away on holidaym

The Jgm paper is now in press but they say the proofs won't come before latter part of Sept which is as well as I shall be back by then to deal with them. Do you have a reference for the L and Edwards paper yet? I take it I may refer to it at Rome.

T35/52. Gr. J. O., S. typhi by biorheads (he Mains Gravar, Ann. Inthosport 135/52. Gr. J. O., S. typhi by biorheads (he Mains Gravar, Ann. Inthosport 15)

Jhave got swarms with d by treatmet of 7MI.

also one yeart. Also record plane? J via regum.

41952-83-408.

1953-136-400. \$\formaller{TM1}\$ evokes a few trails, two swarms,

1953-136-400. \$\formaller{TM2}\$ evokes a few trails, two swarms,

T39/52. Sent as an Styphi O. (Vi -, like the other two), from

Dr MO; ER, Hambrogh. (No cletails or reference). I think it

is another Pla lumber to He tores as \$\formaller{TM1}\$ evokes

V. Mermerous trails (we swarms so far) which require and i-d

+ anti-i to suppress the.

A. 205. Be. S. sava A. Romal H

a Im. """ Demolyped H

a Im. """ Weaksy worth a Hagglet

Torelo Esther: I supprese you are all as y witters hell was, as we we doubt

Mall be win we get to (taly. Yes Issue):